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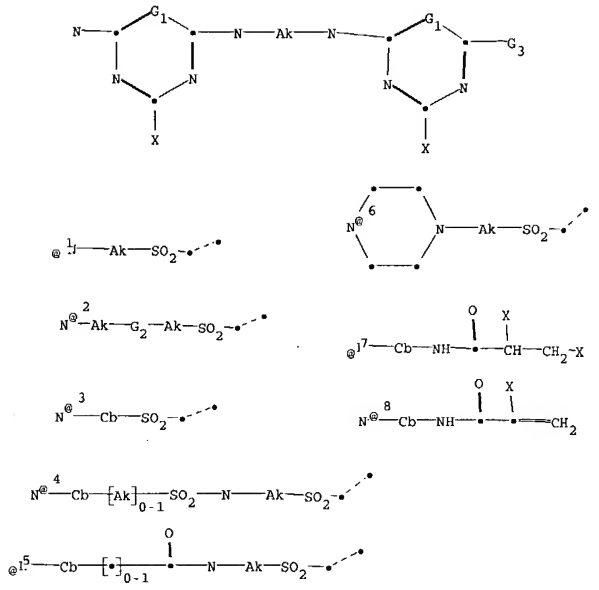

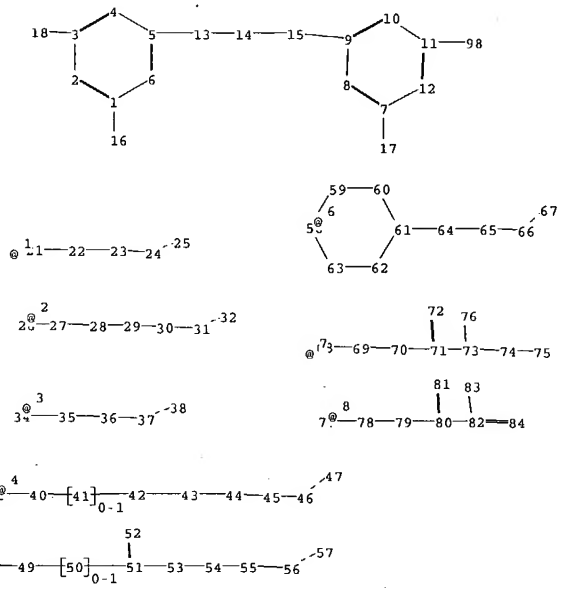

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39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 64 65 66 67
68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 98
ing nodes :
1 2 3 4 5 6 7 8 9 10 11 12 58 59 60 61 62 63
hain bonds :
1-16 3-18 5-13 7-17 9-15 11-98 13-14 14-15 21-22 22-23 23-24 24-25 26-27 27-28
28-29 29-30 30-31 31-32 34-35 35-36 36-37 37-38 39-40 40-41 41-42 42-43 43-44
44-45 45-46 46-47 48-49 49-50 50-51 51-52 51-53 53-54 54-55 55-56 56-57 61-64
64-65 65-66 66-67 68-69 69-70 70-71 71-72 71-73 73-74 73-76 74-75 77-78 78-79
79-80 80-81 80-82 82-83 82-84
ing bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12 58-59 58-63 59-60
60-61 61-62 62-63
xact/norm bonds :
1-2 1-6 1-16 2-3 3-4 3-18 4-5 5-6 5-13 7-8 7-12 7-17 8-9 9-10 9-15 10-11
11-12 11-98 13-14 14-15 21-22 22-23 23-24 24-25 26-27 27-28 28-29 29-30 30-31
31-32 34-35 35-36 36-37 37-38 39-40 40-41 41-42 42-43 43-44 44-45 45-46 46-47
48-49 49-50 50-51 51-52 51-53 53-54 54-55 55-56 56-57 58-59 58-63 59-60 60-61
61-62 61-64 62-63 64-65 65-66 66-67 68-69 69-70 70-71 71-72 71-73 73-74 73-76
74-75 77-78 78-79 79-80 80-81 80-82 82-83 82-84

1:C,N

2:O,N

3:[*1],[*2],[*3],[*4],[*5],[*6],[*7],[*8]

atch level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom
12:Atom 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 21:CLASS 22:CLASS
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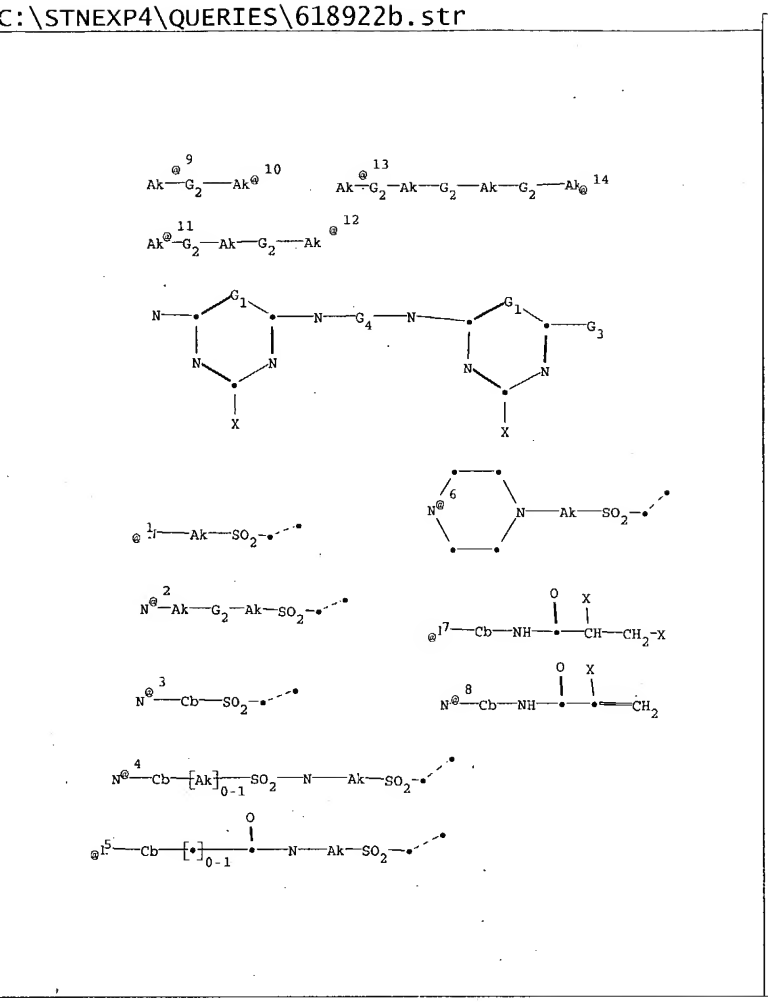

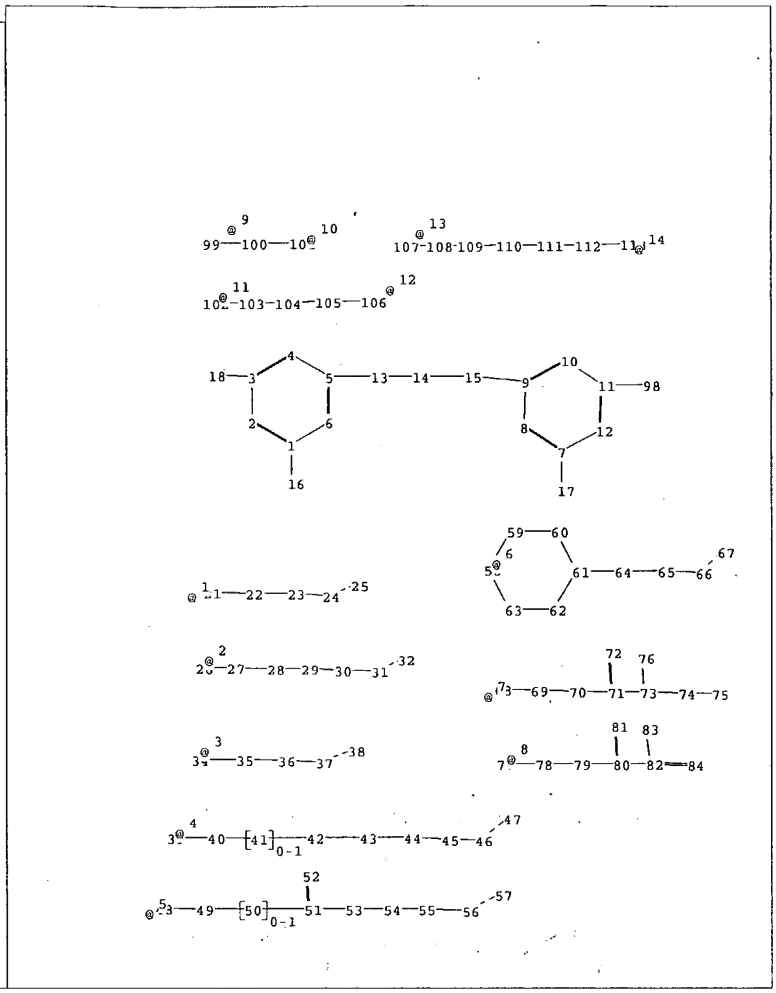

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103 104 105 106 107 108 109 110 111 112 113
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 58 59 60 61 62 63
chain bonds :
1-16 3-18 5-13 7-17 9-15 11-98 13-14 14-15 21-22 22-23 23-24 24-25 26-27 27-28
28-29 29-30 30-31 31-32 34-35 35-36 36-37 37-38 39-40 40-41 41-42 42-43 43-44
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107-108 108-109 109-110 110-111 111-112 112-113
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12 58-59 58-63 59-60
60-61 61-62 62-63
exact/norm bonds :
1-2 1-6 1-16 2-3 3-4 3-18 4-5 5-6 5-13 7-8 7-12 7-17 8-9 9-10 9-15 10-11
11-12 11-98 13-14 14-15 21-22 22-23 23-24 24-25 26-27 27-28 28-29 29-30 30-31
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G1:C,N

G2:O,N

G3:[*1],[*2],[*3],[*4],[*5],[*6],[*7],[*8]

G4:[*9-*10],[*11-*12],[*13-*14]

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L2              STRUCTURE UPLOADED
L3            1 S L1 OR L2
L4            5 S L3 FULL

     FILE 'CAPLUS' ENTERED AT 13:19:54 ON 11 JUN 2004
L5            3 S L4

=> d que l5 stat
L1              STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY -  AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.
L2              STR

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L4            5 SEA FILE=REGISTRY SSS FUL L1 OR L2
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=> d 1-3 ibib iabs hitstr
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L5 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2002:51717 CAPLUS
DOCUMENT NUMBER: 136:119798
TITLE: Printing cellulosic fiber materials without an additional fixing process step
INVENTOR(S): Tzikas, Athanassios; Reichert, Hans; Klier, Herbert
PATENT ASSIGNEE(S): Ciba Specialty Chemicals Holding Inc., Switz.
SOURCE: PCT Int. Appl., 54 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002004741	A1	20020117	WO 2001-EP7362	20010628
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
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EP 1299594	A1	20030409	EP 2001-953180	20010628
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JP 2004502886	T2	20040129	JP 2002-509589	20010628
US 2002032318	A1	20020314	US 2001-899439	20010705
US 6623533	B2	20030923		
US 2004055098	A1	20040325	US 2003-618922	20030714

PRIORITY APPLN. INFO.: EP 2000-810594 A 20000707
WO 2001-EP7362 W 20010628
US 2001-899439 A3 20010705
OTHER SOURCE(S): MARPAT 136:119798
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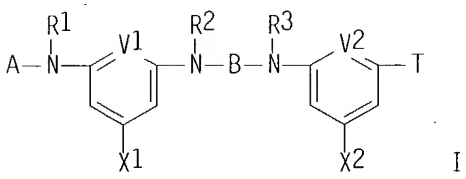

I

ABSTRACT:
Printing cellulosic fiber materials comprises fiber material brought into contact with reactive dyes I, where A is the radical of a monoazo, polyazo,

metal complex azo, anthraquinone, phthalocyanine, formazan or dioxazine chromophore, R1, R2 and R3 = H or unsubstituted or substituted C1-4-alkyl, X1 and X2 = halogen, B is an organic bridging member, T is a reactive radical, R4 = H, C1-4-alkyl unsubstituted or substituted by hydroxy, sulfo, sulfato, carboxy or by CN, or a radical alkR5SO2Y, where R5 = is H, OH, sulfo, sulfato, carboxy, CN, halogen, C1-C4alkoxycarbonyl, C1-C4alkanoyloxy, carbamoyl or SO2Y, R6 = H or C1-C4alkyl, alk and alk1 are linear or branched C1-C6alkylene, arylene is an unsubstituted or sulfo, carboxy, OH, C1-C4alkyl, C1-C4alkoxy- or halo-substituted phenylene or naphthylene radical, Y = vinyl or a radical CH2CH2U and U is a leaving group, Y1 = CH(Hal)CH2(Hal) or C(Hal)=CH2, where Hal is Cl or Br, W = SO2NR6, CONR6 or NR6CO, Q = O or NR6, n = 0 or 1, and V1 and V2 = N, CH, CCl or CF. The prints obtained are distinguished by brilliant color shades and good all around properties.

IT **390368-44-2P 390368-45-3P**
RL: IMF (Industrial manufacture); PEP (Physical, engineering or chemical process); PYP (Physical process); TEM (Technical or engineered material use); PREP (Preparation); PROC (Process); USES (Uses)
(dyeing by; reactive dye printing cellulosic materials without addnl. fixing process step)

RN 390368-44-2 CAPLUS

CN 1,3,6-Naphthalenetrisulfonic acid, 7-[[2-[(aminocarbonyl)amino]-4-[[4-chloro-6-[[2-[[4-[[4-(ethenylsulfonyl)phenyl]amino]-6-fluoro-1,3,5-triazin-2-yl]amino]methylethyl]amino]-1,3,5-triazin-2-yl]amino]phenyl]azo]- (9CI) (CA INDEX NAME)

PAGE 1-A

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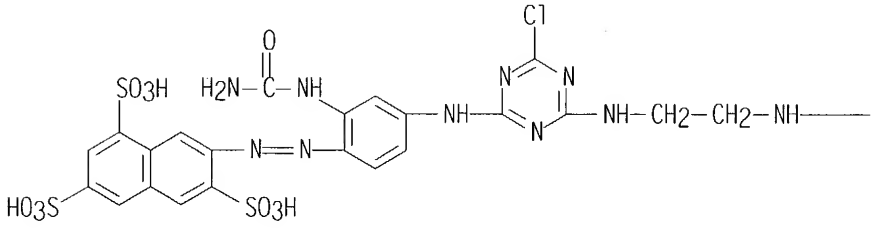

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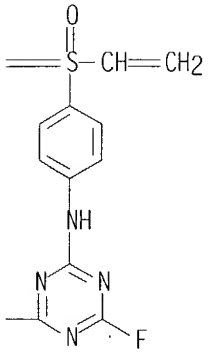
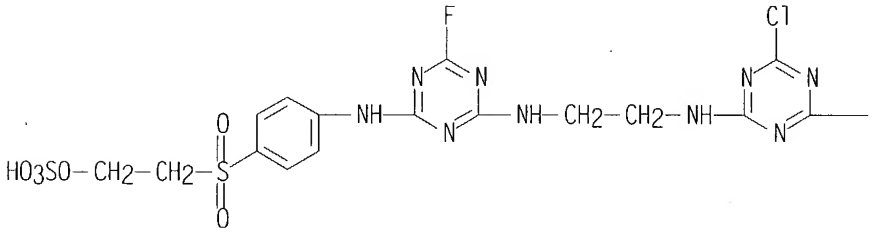


RN 390368-45-3 CAPLUS

CN Benzenesulfonic acid, 2-[[5-(aminocarbonyl)-1-ethyl-1,6-dihydro-2-hydroxy-4-methyl-6-oxo-3-pyridinyl]azo]-4-[[4-chloro-6-[[2-[[4-fluoro-6-[[4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]amino]-1,3,5-triazin-2-yl]amino]methylethyl]amino]-1,3,5-triazin-2-yl]amino]- (9CI) (CA INDEX NAME)

PAGE 1-A



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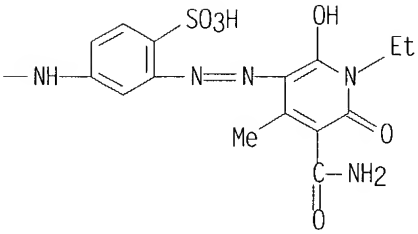

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1999:672436 CAPLUS
DOCUMENT NUMBER: 131:300558
TITLE: Process for the treatment of cellulose fibers
INVENTOR(S): Aeschlimann, Peter; Muller, Bernhard
PATENT ASSIGNEE(S): Ciba Specialty Chemicals Holding Inc., Switz.; Chemiefaser Lenzing
SOURCE: Eur. Pat. Appl., 29 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 950750	A1	19991020	EP 1999-810284	19990407
EP 950750	B1	20031022		
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TW 490528	B	20020611	TW 1999-88104974	19990329
AT 252660	E	20031115	AT 1999-810284	19990407
JP 2000064176	A2	20000229	JP 1999-101098	19990408
US 6203746	B1	20010320	US 1999-289317	19990409
AU 9923729	A1	19991021	AU 1999-23729	19990413
AU 747485	B2	20020516		
CN 1235218	A	19991117	CN 1999-107516	19990413
BR 9902044	A	20000104	BR 1999-2044	19990413

PRIORITY APPLN. INFO.: EP 1998-810315 A 19980414
CH 1998-1096 A 19980519
OTHER SOURCE(S): MARPAT 131:300558
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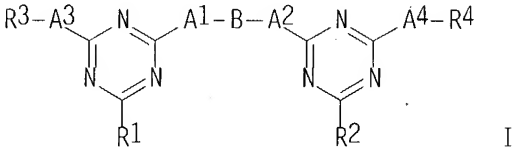

I

ABSTRACT:
The fibrillation tendency of lyocell cellulosic fibers is reduced by treatment with compds. having the structure I, where R1 and R2 are halogen or a sulfo-substituted phenylamino group, with at least one or both being halogen; R3 and R4 are unsubstituted or substituted Ph groups; A1, A2, A3 and A4 are O, S, or an amino group; B is an aromatic bridging group; A3R3 or A4R4 can be halogen; and A1BA2 is NHCH2CHMeNH. Thus, 2,5-anilinedisulfonic acid was treated with cyanuric fluoride and 1,2-diaminopropane to give the intermediate 2-[[4-[(2-amino-1-methylethyl)amino]-6-fluoro-1,3,5-triazin-2-yl]amino]-1,4-benzenedisulfonic acid, which on treatment with aniline-2-sulfonic acid yielded I, where R = F, R1 = 2-sulfoanilino and Z = CH2CHMe (II). Treatment of a

lyocell fabric with an aqueous liquor containing II yielded a fabric having a Martindale abrasion test value about 1.5 times higher than that of the unfinished fabric. The fabric could be simultaneously dyed with fiber-reactive dyes during the treatment with II.

IT **247019-46-1P**
RL: MOA (Modifier or additive use); PEP (Physical, engineering or chemical process); SPN (Synthetic preparation); PREP (Preparation); PROC (Process); USES (Uses)
(finishing agent; for reducing fibrillation of lyocell textiles)

RN 247019-46-1 CAPLUS

CN 1,4-Benzenedisulfonic acid, 2-[[4-chloro-6-[[2-[[4-chloro-6-[[4-(ethenylsulfonyl)phenyl]amino]-1,3,5-triazin-2-yl]amino]propyl]amino]-1,3,5-triazin-2-yl]amino]- (9CI) (CA INDEX NAME)

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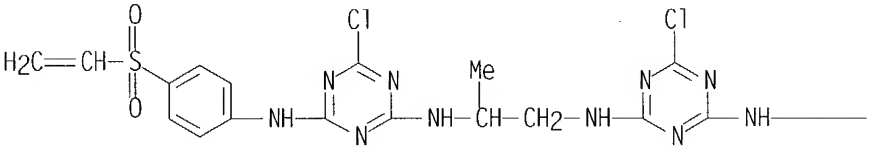

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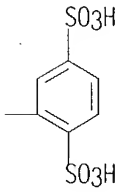

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1999:505688 CAPLUS
DOCUMENT NUMBER: 131:145686
TITLE: Multifunctional reactive blue formazan dyes
INVENTOR(S): Phillips, Duncan Adrian Sidney; Taylor, John Anthony; Chen, Wen-Jang
PATENT ASSIGNEE(S): Everlight USA, Inc., USA
SOURCE: U.S., 19 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5936073	A	19990810	US 1998-205353	19981204

PRIORITY APPLN. INFO.: US 1998-205353 19981204
OTHER SOURCE(S): MARPAT 131:145686
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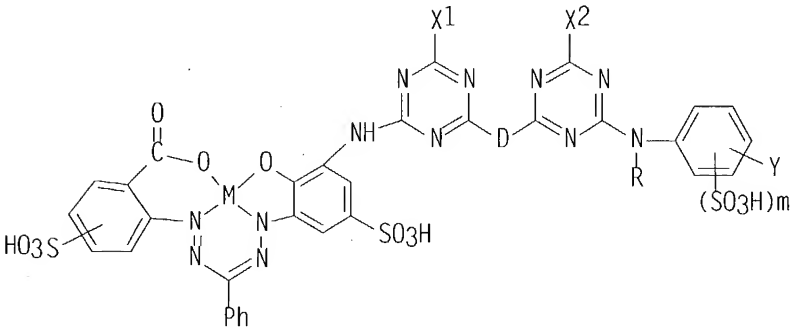

I

ABSTRACT:
The dyes have the formula I [D = NH(CH2)pNH, NR1(CH2)qC6H4-n(SO3H)nNH; M = Cu, Ni; R, R1 = H, C1-4 alkyl; X1, X2 = F, Cl, Br, quaternary ammonium; Y = SO2CH:CH2 or precursor, NHCOCT:CH2 or precursor; T = OH, Cl, Br, OSO3H; m = 0, 1; p, q = 0-4]. These dyes have deep-dyeing ability, and are suitable for dyeing and printing of materials containing cellulose fibers, such as cotton, synthetic cotton, hemp, and synthetic hemp.

IT **236386-99-5P 236387-00-1P**
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(blue; preparation of multifunctional reactive formazan dyes)
RN 236386-99-5 CAPLUS
CN Cuprate(4-), [2-[[[[3-[[4-chloro-6-[[2-[[4-chloro-6-[[4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]amino]-1,3,5-triazin-2-

yl]amino]ethyl]amino]-1,3,5-triazin-2-yl]amino]-2-(hydroxy-κO)-5-sulfophenyl]azo-κN2]phenylmethyl]azo-κN1]-4-sulfobenzoato(6-)-κO]-, tetrahydrogen (9CI) (CA INDEX NAME)

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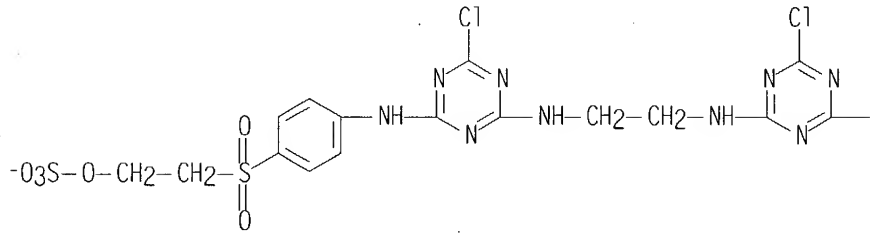

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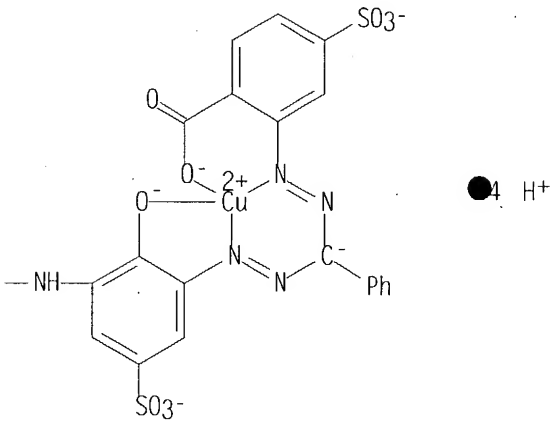

RN 236387-00-1 CAPLUS

CN Cuprate(4-), [2-[[[[3-[[4-chloro-6-[[3-[[4-chloro-6-[[4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]amino]-1,3,5-triazin-2-yl]amino]propyl]amino]-1,3,5-triazin-2-yl]amino]-2-(hydroxy-κO)-5-sulfophenyl]azo-κN2]phenylmethyl]azo-κN1]-4-sulfobenzoato(6-)-κO]-, tetrahydrogen (9CI) (CA INDEX NAME)

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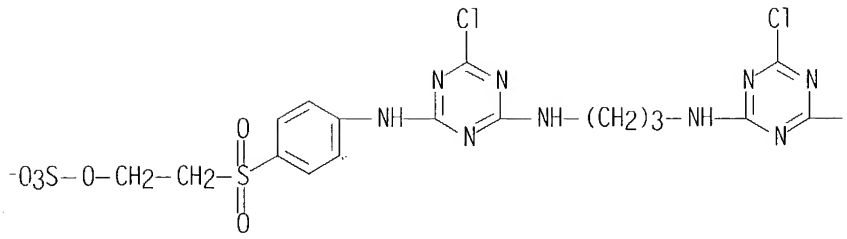

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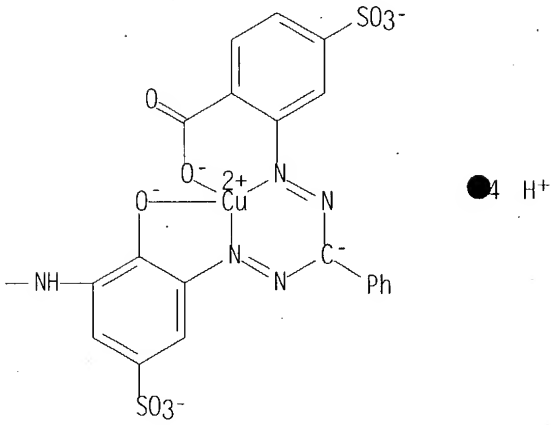

4 H^+

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